

STUDENT ID NO								
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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2018/2019

DCS5018 - COMPUTER SYSTEMS & APPLICATIONS

(For Diploma students only)

17 OCTOBER 2018 9:00 a.m. - 11:00 a.m. (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 5 pages excluding cover page.
- 2. Answer ALL questions in Section A on the OMR sheet.
- 3. Answer ALL questions in Section B in the Answer Booklet.

Section A: 20 Multiple Choice Questions (20 marks)

Instruction: Shade your answers on the OMR sheet.

- 1. Which of the following is the result of data processing?
 - A. Data

C. Information

B. Input

D. Output

- 2. Which of the following is **NOT** an example of application software?
 - A. Adobe Photoshop

C. Linux

B. Audicity

D. Gmail

- 3. Who are the individuals that are involved in the development of the internet?
 - A. Nikola Tesla & Samuel Morse
 - B. Vinton Cerf & Robert Kahn
 - C. Rudolf Diesel & Humphry Davy
 - D. Herman Hollerith & Henry Bessemer
- 4. Below shows a URL for a video on YouTube.com. Identify the component of the URL that marked (i).

A. Path

C. Top-level domain

B. Domain name

D. Protocol

5. Which of the following **BEST** describe the below statement?

"Vendor hosts the software online and user access and use the software over the internet without having to install it on user's computer,"

- A. Off-the-shelf software
- B. Software as a Service
- C. System software
- D. Specialized software
- 6. Which of the following is/are the guidelines in producing a good presentation?
 - I. Use images
 - II. Use appropriate colours
 - III. Use bullet for key points
 - IV. Keep animation and background audio to the maximum

A. I & II

C. I, II, III

B. II & III

D. All of the above

7.	What is the type of operating system used for machinery and that requires minimal user interaction?							
	A.	Real time	C.	Interactive				
	B.	Cloud-based	D.	Distributed				
8.	Below are the actions that can be taken when facing error during the boot process, EXCEPT: A. Refresh the computer B. Install different software while keeping the same existing software C. Boot with Last Known Good Configuration option D. Uninstall recently installed software							
9.	devic I. II. III. IV.	e? Speed CPU capacity		I in order to have an ideal computing II, III, IV				
		III & IV	D.	All of the above				
	<i>D</i> .	111 62 1 7	D.	All of the above				
10.	O store data as tiny pits that are burned into the disc by a high-speed A. Optical discs, optical light B. Optical discs, laser							
		olid-state drives, optical light						
	D. Solid-state drives, laser							
11.	 11. Network architecture can be classified according to: The distance between their nodes. The way in which they are managed (or administered). The set of rules (or protocol) used to exchange data between network nodes. The communications medium used to transport the data. 							
	A.	I & II	C.	II, III, IV				
	B.	I, II, III	D.	All of the above				
12.	2. The below standard define wireless communication EXCEPT . A. IEEE 802.3 C. IEEE 802.15 B. IEEE 802.11 D. IEEE 802.16							
13.	 13. Which of the following statement is <u>TRUE</u>? A. 3G brought mobile device data-transfer rates as high as 3.8 Mbps. B. 4G can provide mobile connection speeds of up to 4.8 Mbps C. 3G has more susceptible interference than WiFi D. 4G LTE has better data-transfer rates than true 4G. 							

14.	I. II.	Raw Uncompressed Data (RAW Windows Media Audio (WMA)	7).	I photography are				
	III. IV.	MPEG Layer III (MP3). Joint Photographic Experts Group (JPEG).						
				II, III, and IV All of above.				
15.		changes its own code or peri-	odica	lly rewrites itself to avoid detection.				
	A. B.	Polymorphic virus Multipartite virus	C. D.	Stealth virus Worm				
16.		ng bombarded with data requests in Scareware	is kno	Denial-of-service				
17.	17. A second-generation language (2GL) is also known as							
	A. B.	Database Query Language Assembly language	C. D.	Machine language Web development language				
18.	Purpo	ose to insert a comment in a progra	am co	de is				
	 A. To translate the program code to assembly language B. To connect the code with database. C. To accelerate the compilation of code D. To explain the purpose of section code 							
19.		siness intelligence systems, TPS is						
	A. B.	Transaction Purchase System Transport Tunnel System	C. D.	Transaction Processing System Tunneling Private System				
20.		Thich of below option is NOT a main operation of a Database Management systems.						
		Sorting Data	C.	<u> </u>				
	В.	Outputting data	D.	Interjection Data				

Continued...

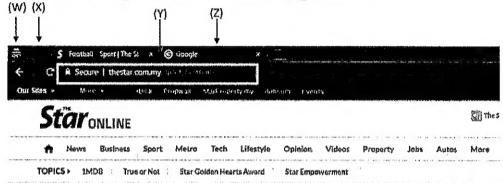
Section B: 4 Structured Questions (80 marks)

Instruction: Write your answers in the Answer Booklet.

Question 1 (Total: 20 Marks)

(a) Give FIVE (5) examples of input devices and output devices. (5 marks)

(b) Based on below figure, answer the following questions:



Football

5 Jul 2016 [11:45 AM Palace goalkeepers Hennessey, Speroni sign new contracts (Reuters) - Goalkeepers Wayne Hennessey and Julian Speroni have signed new contracts at Crystal Palace, the Premier League club has said.



i. Explain what is a web browser. (2 marks) (4 marks)

ii. What can a graphical browser display?

Identify (W), (X), (Y), (Z). iii.

- (4 marks)
- (c) Explain what is an open source software and list down THREE (3) examples of open source software. (5 marks)

Question 2 (Total: 20 Marks)

- (a) System software is one of the essential component in order to run a computer. Based on this statement, answer the following questions:
 - i. State TWO (2) basic types of system software (2 marks)
 - ii. Based on question (i), explain each type of system software. (2 marks)
 - iii. Give TWO (2) example for each system software. (4 marks)
- (b) The boot process is a process of starting a turned off computer. List down the steps in boot process and briefly explain each step. (8 marks)
- (c) There are many different types of hard drive. State FOUR (4) characteristics of Mechanical Hard Drive (4 marks)

Question 3 (Total: 20 Marks)

- (a) Describe any **THREE** (3) type of Network Architecture which defined by distance? (6 marks)
- (b) When you speak into a cell phone, a series of steps occur. Describe **THREE** (3) steps of this process. (6 marks)
- (c) Najwa is planning to create a strong password for her online banking login. Give FOUR (4) comments on the password given below. (8 marks)

22Pen@22me

Question 4 (Total: 20 Marks)

- (a) List the SIX (6) steps in Software Development Life Cycle (SDLC). (6 marks)
- (b) What are the tools required to build an Android device application? (6 marks)
- (c) Describe any TWO (2) of the database main components. (4 marks)
- (d) List out FOUR (4) criteria of a good primary key in a database. (4 marks)